

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A distribution system that distributes a program for decoding encoded audio data, comprising:
 - a distribution server device which sends the program;
 - a removable memory unit which has an area for storing one or more programs;
 - an acquisition device which, being connected to ~~the said~~ distribution server device via a network and loaded with ~~the said~~ removable memory unit, acquires the program from ~~the said~~ distribution server device and stores the program ~~into~~ in the said removable memory unit; and
 - an audio reproduction device which, being loaded with ~~the said~~ removable memory unit storing the program, decodes the encoded audio data using the program, and outputs sounds.
2. (Currently Amended) The distribution system of Claim 1,
 - wherein ~~the said~~ removable memory unit stores one or more programs which are each used for decoding encoded audio data of a different type,
 - ~~the said~~ audio reproduction device stores a detection module beforehand, the detection module being a program module used for detecting a type of the encoded audio data, and
 - ~~the said~~ audio reproduction device detects the type of the encoded audio data using the detection module, reads the program for decoding encoded audio data of the detected type from ~~the said~~ removable memory unit, and decodes the encoded audio data using the read program.
3. (Currently Amended) The distribution system of Claim 2,
 - wherein ~~the said~~ distribution server device sends permission information which indicates that the program is permitted ~~to~~ for use, in correspondence with the program,
 - ~~the said~~ acquisition device acquires the permission information, and stores the permission information ~~into~~ in the said removable memory unit in correspondence with the program, and
 - ~~the said~~ audio reproduction device decodes the encoded audio data using the program, only when the permission information corresponding to the program is stored in ~~the said~~ removable memory unit.

4. (Currently Amended) The distribution system of Claim 3,
wherein ~~the said~~ distribution server device sends condition information which shows a condition for using the program, in correspondence with the program,
~~the said~~ acquisition device acquires the condition information, and stores the condition information ~~into~~ ~~in~~ ~~the said~~ removable memory unit in correspondence with the program, and
~~the said~~ audio reproduction device judges whether the program is permitted ~~to~~ for use based on the condition shown by the condition information stored in ~~the said~~ removable memory unit, and decodes the encoded audio data using the program only when the program is judged as being permitted ~~to~~ for use.
5. (Currently Amended) The distribution system of Claim 4,
wherein the condition information is period information that limits a period during which the program is permitted ~~to~~ for use,
~~the said~~ distribution server device sends the period information,
~~the said~~ acquisition device acquires the period information and stores the period information ~~into~~ ~~in~~ ~~the said~~ removable memory unit, and
~~the said~~ audio reproduction device judges that the program is permitted ~~to~~ for use, if current date and time is within the period shown by the period information.
6. (Currently Amended) The distribution device of Claim 4,
wherein the condition information is number information which limits a remaining number of times the program is permitted ~~to~~ for use,
~~the said~~ distribution server device sends the number information,
~~the said~~ acquisition device acquires the number information and stores the number information ~~into~~ ~~in~~ ~~the said~~ removable memory unit, and
~~the said~~ audio reproduction device judges that the program is permitted ~~to~~ for use, if the number shown by the number information is not smaller than 1, the number being decreased by 1 each time ~~the said~~ audio reproduction device decodes encoded audio data using the program.
7. (Currently Amended) The distribution system of Claim 3,

wherein ~~the said~~ distribution server device generates a user identifier which identifies a user of the audio reproduction device, stores the generated user identifier, and also sends the generated user identifier, and

~~the said~~ acquisition device acquires the user identifier and stores the user identifier ~~into~~in the said removable memory unit.

8. (Currently Amended) ~~The distribution system of Claim 7-A~~ A distribution system that distributes a program for decoding encoded audio data, comprising:

a distribution server device which sends the program and permission information which indicates that the program is permitted for use, in correspondence with the program;

a removable memory unit which has an area for storing one or more programs which are each used for decoding encoded audio data of a different type;

an acquisition device which, being connected to said distribution server device via a network and loaded with said removable memory unit, acquires the permission information and the program from said distribution server device and stores the permission information and the program in said removable memory unit, the permission information being stored in correspondence with the program; and

an audio reproduction device which, being loaded with said removable memory unit storing the program, decodes the encoded audio data using the program, and outputs sounds, and said audio reproduction device stores a detection module beforehand, said detection module being a program module used for detecting a type of the encoded audio data,

wherein the distribution system ~~that~~ further generates a user identifier which identifies a user of said audio reproduction device, stores the generated user identifier, sends the generated user identifier, and also distributes maintenance information for updating the program,

wherein the said acquisition device acquires the user identifier and stores the user identifier in said removable memory unit, reads the user identifier from ~~the said~~ removable memory unit, and sends the user identifier to ~~the said~~ distribution server device,

the said distribution server device (a) stores the maintenance information beforehand in correspondence with the program, (b) receives the user identifier, (c) judges whether the received user identifier matches the user identifier stored in ~~the said~~ distribution server device, and (d)

sends the maintenance information if the two user identifiers are judged as matching, and ~~the said~~ acquisition device acquires the maintenance information, and updates the program stored in ~~the said~~ removable memory unit using the acquired maintenance information, and

said audio reproduction device detects the type of the encoded audio data using the detection module, reads the program for decoding encoded audio data of the detected type from said removable memory unit, and decodes the encoded audio data using the read program, and said audio reproduction device decodes the encoded audio data using the program, only when the permission information corresponding to the program is stored in said removable memory unit.

9. (Currently Amended) The distribution system of Claim 8,

wherein ~~the said~~ distribution server device generates a permission information identifier which identifies the permission information, stores the generated permission information identifier, and also sends the generated permission information identifier, and

~~the said~~ acquisition device acquires the permission information identifier, and stores the permission information identifier ~~into~~ in ~~the said~~ removable memory unit.

10. (Currently Amended) The distribution system of Claim 9,

wherein ~~the said~~ acquisition device reads the permission information identifier from ~~the said~~ removable memory unit, and sends the permission information identifier to ~~the said~~ distribution server device, and

~~the said~~ distribution server device (a) receives the permission information identifier, (b) judges whether the received permission information identifier matches the permission information identifier stored in ~~the said~~ distribution server device, and (c) sends the maintenance information if the two permission information identifiers are judged as matching.

11. (Currently Amended) The distribution system of Claim 3 further comprising an account server device,

wherein ~~the said~~ acquisition device is connected to ~~the said~~ account server device via the network, and sends payment information to ~~the said~~ account server device, the payment

information indicating that payment has been made for the acquisition of the program,
~~the said~~ account server device is connected to ~~the said~~ distribution server device via the network, and when receiving the payment information, sends confirmation information to ~~the said~~ distribution server device, the confirmation information confirming that the payment has been made for the acquisition of the program, and
~~the said~~ distribution server device sends the program, when receiving the confirmation information.

12. (Currently Amended) ~~The distribution system of Claim 2;~~ A distribution system that distributes a program for decoding encoded audio data, comprising:

a distribution server device which sends the program;

a removable memory unit which has an area for storing one or more programs which are each used for decoding encoded audio data of a different type;

an acquisition device which, being connected to said distribution server device via a network and loaded with said removable memory unit, acquires the program from said distribution server device and stores the program in said removable memory unit; and

an audio reproduction device which, being loaded with said removable memory unit storing the program, decodes the encoded audio data using the program, and outputs sounds, said audio reproduction device storing a detection module beforehand, said detection module being a program module used for detecting a type of the encoded audio data, and said audio reproduction device detects the type of the encoded audio data using the detection module, reads the program for decoding encoded audio data of the detected type from said removable memory unit, and decodes the encoded audio data using the read program,

wherein ~~the said~~ distribution server device sends an alternative detection module that is a program module used, instead of the detection module stored in ~~the said~~ audio reproduction device, for detecting the type of the encoded audio data,

~~the said~~ acquisition device acquires the alternative detection module from ~~the said~~ distribution server device, and stores the alternative detection module ~~into~~ ~~the said~~ removable memory unit, and

~~the said~~ audio reproduction device reads the alternative detection module from ~~the said~~

removable memory unit, and detects the type of the encoded audio data using the alternative detection module instead of the detection module.

13. (Currently Amended) An audio reproduction device for decoding encoded audio data and outputting sounds in a distribution system that includes a distribution server device, an acquisition device, and the audio reproduction device, wherein the distribution server device sends a program for decoding the encoded audio data to the acquisition device via a network, a removable memory unit is loaded to the acquisition device, the acquisition device writes the program ~~into~~in the removable memory unit, and the removable memory unit storing the program is loaded to the audio reproduction device, the audio reproduction device comprising:

- a reading unit operable to read the program from the removable memory unit;
- a decoding unit operable to decode the encoded audio data using the program, to generate audio data; and
- a sound outputting unit operable to convert the audio data to the sounds and output the sounds.

14. (Currently Amended) The audio reproduction device of Claim 13,
wherein the removable memory unit stores one or more programs which are each used for decoding encoded audio data of a different type,
the audio reproduction device further comprises:
a storage area which stores a detection module beforehand, the detection module being a program module used for detecting a type of the encoded audio data, and
~~the said~~ decoding unit detects the type of the encoded audio data using the detection module, reads the program for decoding encoded audio data of the detected type from the removable memory unit, and decodes the encoded audio data using the read program.

15. (Currently Amended) The audio reproduction device of Claim 14,
wherein the removable memory unit stores permission information indicating that the program is permitted ~~to~~ for use, in correspondence with the program, and
~~the said~~ decoding unit decodes the encoded audio data using the program, only when the

permission information corresponding to the program is stored in the removable memory unit.

16. (Currently Amended) The audio reproduction device of Claim 15 further comprising:
a displaying unit operable to display a message indicating that the program is prohibited ~~to~~ for use, when the permission information is not stored in the removable memory unit.

17. (Currently Amended) The audio reproduction device of Claim 15,
wherein the removable memory unit stores condition information showing a condition
for using the program, in correspondence with the program, and
~~the said~~ decoding unit judges whether the program is permitted ~~to~~ for use based on the
condition shown by the condition information stored in the removable memory unit, and decodes
the encoded audio data using the program when the program is judged as being permitted ~~to~~ for
use.

18. (Currently Amended) The audio reproduction device of Claim 17,
wherein the condition information is period information that limits a period during
which the program is permitted ~~to~~ for use, and
~~the said~~ decoding unit judges that the program is permitted ~~to~~ for use, if current date and
time is within the period shown by the period information.

19. (Currently Amended) The audio reproduction device of Claim 17,
wherein the condition information is number information that limits a remaining number
of times the program is permitted ~~to~~ for use, and
~~the said~~ decoding unit judges that the program is permitted for ~~to~~ use, if the number
shown by the number information is not smaller than 1, the number being decreased by 1 each
time ~~the said~~ decoding unit decodes encoded audio data using the program.

20. (Currently Amended) The audio reproduction device of Claim 15 further comprising:
a displaying unit operable to display an identifier that identifies the program which is
permitted ~~to~~ for use, based on the permission information stored in the removable memory unit.

21. (Currently Amended) ~~The audio reproduction device of Claim 15.~~ An audio reproduction device for decoding encoded audio data and outputting sounds in a distribution system that includes a distribution server device, an acquisition device, and the audio reproduction device, wherein the distribution server device sends a program for decoding the encoded audio data to the acquisition device via a network, a removable memory unit is loaded to the acquisition device, the acquisition device writes the program in the removable memory unit, and the removable memory unit storing the program is loaded to the audio reproduction device, the audio reproduction device comprising:

a reading unit operable to read the program from the removable memory unit;
a decoding unit operable to decode the encoded audio data using the program, to generate audio data; and
a sound outputting unit operable to convert the audio data to the sounds and output the sounds,

wherein the removable memory unit stores one or more programs which are each used for decoding encoded audio data of a different type, and permission information indicating that the program is permitted for use that is stored in correspondence with the program,

the audio reproduction device includes a storage area which stores a detection module beforehand, the detection module being a program module used for detecting a type of the encoded audio data, and

the decoding unit detects the type of the encoded audio data using the detection module, reads the program for decoding encoded audio data of the detected type from the removable memory unit, and decodes the encoded audio data using the read program, the decoding unit decoding the encoded audio data using the program, only when the permission information corresponding to the program is stored in the removable memory unit, and

wherein the program is made up of subprograms, and
the audio reproduction device further comprises: includes
a subprogram storage area which is used for storing a subprogram; subprograms and
a loading unit operable to write the subprograms in sequence into the subprogram storage area, and

the decoding unit decodes the encoded audio data using the subprograms written in the subprogram storage area.

22. (Currently Amended) ~~The audio reproduction device of Claim 15.~~ An audio reproduction device for decoding encoded audio data and outputting sounds in a distribution system that includes a distribution server device, an acquisition device, and the audio reproduction device, wherein the distribution server device sends a program for decoding the encoded audio data to the acquisition device via a network, a removable memory unit is loaded to the acquisition device, the acquisition device writes the program in the removable memory unit, and the removable memory unit storing the program is loaded to the audio reproduction device, the audio reproduction device comprising:

a reading unit operable to read the program from the removable memory unit;

a decoding unit operable to decode the encoded audio data using the program, to generate audio data; and

a sound outputting unit operable to convert the audio data to the sounds and output the sounds.

wherein the removable memory unit stores one or more programs which are each used for decoding encoded audio data of a different type, and permission information indicating that the program is permitted for use that is stored in correspondence with the program,

the audio reproduction device includes a storage area which stores a detection module beforehand, the detection module being a program module used for detecting a type of the encoded audio data, and

the decoding unit detects the type of the encoded audio data using the detection module, reads the program for decoding encoded audio data of the detected type from the removable memory unit, and decodes the encoded audio data using the read program, the decoding unit decoding the encoded audio data using the program, only when the permission information corresponding to the program is stored in the removable memory unit, and

wherein the program is made up of subprograms,

the audio reproduction device further comprises: includes

two subprogram storage areas which are each used for storing a subprogram;

subprograms and

a loading unit operable to write the subprograms in sequence ~~into~~^{into} the two subprogram storage areas alternately, and

the decoding unit decodes the encoded audio data, alternately using the subprograms written in the two subprogram storage areas.

23. (Currently Amended) ~~The audio reproduction device of Claim 15, An audio reproduction device for decoding encoded audio data and outputting sounds in a distribution system that includes a distribution server device, an acquisition device, and the audio reproduction device, wherein the distribution server device sends a program for decoding the encoded audio data to the acquisition device via a network, a removable memory unit is loaded to the acquisition device, the acquisition device writes the program in the removable memory unit, and the removable memory unit storing the program is loaded to the audio reproduction device, the audio reproduction device comprising:~~

a reading unit operable to read the program from the removable memory unit;

a decoding unit operable to decode the encoded audio data using the program, to generate audio data; and

a sound outputting unit operable to convert the audio data to the sounds and output the sounds,

wherein the removable memory unit stores one or more programs which are each used for decoding encoded audio data of a different type, and permission information indicating that the program is permitted for use that is stored in correspondence with the program,

the audio reproduction device includes a storage area which stores a detection module beforehand, the detection module being a program module used for detecting a type of the encoded audio data, and

the decoding unit detects the type of the encoded audio data using the detection module, reads the program for decoding encoded audio data of the detected type from the removable memory unit, and decodes the encoded audio data using the read program, the decoding unit decoding the encoded audio data using the program, only when the permission information corresponding to the program is stored in the removable memory unit, and

wherein the removable memory unit stores a unique program beforehand, instead of the program,

the audio reproduction device further ~~comprises:~~ includes

a ROM storing unit which is made of a read-only semiconductor memory and stores a common subprogram beforehand, the program being made up of the unique subprogram and the common ~~subprogram;~~ subprogram.

a RAM storing unit which is made of a readable and rewritable semiconductor memory, and has an area for storing the unique ~~subprogram;~~ subprogram.

a loading unit operable to read the unique subprogram from the removable memory unit, and write the unique subprogram ~~into~~ in the RAM storing unit, and

the decoding unit decodes the encoded audio data, using the common subprogram and the unique subprogram which are respectively stored in the ROM storing unit and the RAM storing unit.

24. (Currently Amended) ~~The audio reproduction device of Claim 14;~~ An audio reproduction device for decoding encoded audio data and outputting sounds in a distribution system that includes a distribution server device, an acquisition device, and the audio reproduction device, wherein the distribution server device sends a program for decoding the encoded audio data to the acquisition device via a network, a removable memory unit is loaded to the acquisition device, the acquisition device writes the program in the removable memory unit, and the removable memory unit storing the program is loaded to the audio reproduction device, the audio reproduction device comprising:

a reading unit operable to read the program from the removable memory unit;

a decoding unit operable to decode the encoded audio data using the program, to generate audio data; and

a sound outputting unit operable to convert the audio data to the sounds and output the sounds,

wherein the removable memory unit stores one or more programs which are each used for decoding encoded audio data of a different type,

the audio reproduction device includes a storage area which stores a detection module

beforehand, the detection module being a program module used for detecting a type of the encoded audio data, and

the decoding unit detects the type of the encoded audio data using the detection module, reads the program for decoding encoded audio data of the detected type from the removable memory unit, and decodes the encoded audio data using the read program, and

wherein the removable memory unit stores an alternative detection module which is a program module used, instead of the detection module stored in the audio reproduction device, for detecting the type of the encoded audio data, the alternative detection module being sent from the distribution server device to the acquisition device and written ~~into~~in the removable memory unit by the acquisition device,

the audio reproduction device further ~~comprises~~includes a loading unit operable to read the alternative detection module from the removable memory unit, and write the alternative detection module ~~into~~in the storage area, and

the decoding unit detects the type of the encoded audio data using the alternative detection module instead of the detection module.

25. (Currently Amended) An audio reproduction device for decoding encoded audio data and outputting sounds in a distribution system that includes a distribution server device, an acquisition device, and the audio reproduction device, wherein the distribution server device sends a program for decoding the encoded audio data to the acquisition device via a network, the audio reproduction device is connected to the acquisition device, and the acquisition device writes the program ~~into~~in a program storing unit in the audio reproduction device, the audio reproduction device comprising:

the program storing unit which stores one or more programs which are each used for decoding encoded audio data of a different type;

a module storing unit which stores a detection module beforehand, the detection module being a program module used for detecting a type of the encoded audio data;

a decoding unit operable to detect the type of the encoded audio data using the detection module, read the program for decoding encoded audio data of the detected type from the program storing unit, and decode the encoded audio data using the read program to generate

audio data; and

a sound outputting unit operable to convert the audio data to the sounds and output the sounds.

26. (Currently Amended) A distribution server device that sends a program for decoding encoded audio data, to an acquisition device via a network, comprising:

a storing unit which stores the program and permission information in correspondence beforehand, the permission information indicating that the program is permitted ~~to~~ for use;

a reading unit operable to read the program and the permission information from the storing unit; and

a sending unit operable to send the program and the permission information to the acquisition device via the network.

27. (Currently Amended) An acquisition device for acquiring a program for decoding encoded audio data, from a distribution server device, comprising:

a receiving unit operable to receive the program and permission information indicating that the program is permitted ~~to~~ for use, from the distribution server device to which the acquisition device is connected via a network; and

a writing unit operable to write the program and the permission information ~~into~~ in a removable memory unit.

28. (Currently Amended) A removable memory medium comprising:

a non-authentication storage area which stores a program for decoding encoded audio data; and

an authentication storage area which stores permission information indicating that the program is permitted ~~to~~ for use, in correspondence with the program,

wherein an access device is allowed to access the authentication storage area only when the access device has succeeded in mutual device authentication with the removable memory medium.

29. (Original) The removable memory medium of Claim 28,
wherein the non-authentication storage area also stores a detection module used for detecting a type of the encoded audio data.

30. (Currently Amended) A distribution method for use in a distribution system that distributes a program for decoding encoded audio data, the distribution system including: a distribution server device; a removable memory unit having an area for storing the program; an acquisition device which is connected to the distribution server device via a network and loaded with the removable memory unit; and an audio reproduction device which is loaded with the removable memory unit, the distribution method comprising:

- a distribution server step, executed by the distribution server device, for sending the program for decoding the encoded audio data;

- an acquiring step, executed by the acquisition device, for acquiring the program and storing the program ~~into~~in the removable memory unit; and

- an audio reproducing step, executed by the audio reproduction device, for decoding the encoded audio data using the program stored in the removable memory unit, and outputting sounds.

31. (Currently Amended) An audio reproduction method for use in an audio reproduction device that decodes encoded audio data and outputs sounds, wherein a distribution server device sends a program for decoding the encoded audio data to an acquisition device via a network, a removable memory unit is loaded to the acquisition device, the acquisition device writes the program ~~into~~in the removable memory unit, and the removable memory unit storing the program is loaded to the audio reproduction device, the audio reproduction method comprising:

- a reading step for reading the program from the removable memory unit;

- a decoding step for decoding the encoded audio data using the program, to generate audio data; and

- a sound outputting step for converting the audio data to the sounds and outputting the sounds.

32. (Currently Amended) A computer-readable recording medium recording a distribution program for use in a distribution computer system that distributes a program for decoding encoded audio data, the distribution system including: a distribution server device; a removable memory unit having an area for storing the program; an acquisition device which is connected to the distribution server device via a network and loaded with the removable memory unit; and an audio reproduction device which is loaded with the removable memory unit, the distribution program comprising:

- a distribution server step, executed by the distribution server device, for sending the program for decoding the encoded audio data;

- an acquiring step, executed by the acquisition device, for acquiring the program and storing the program ~~into~~ in the removable memory unit; and

- an audio reproducing step, executed by the audio reproduction device, for decoding the encoded audio data using the program stored in the removable memory unit, and outputting sounds.

33. (Currently Amended) A computer-readable recording medium recording an audio reproduction program for use in a computer that decodes encoded audio data and outputs sounds, wherein a distribution server device sends a program for decoding the encoded audio data to an acquisition device via a network, a removable memory unit is loaded to the acquisition device, the acquisition device writes the program ~~into~~ in the removable memory unit, and the removable memory unit storing the program is loaded to the computer, the audio reproduction program comprising:

- a reading step for reading the program from the removable memory unit;

- a decoding step for decoding the encoded audio data using the program, to generate audio data; and

- a sound outputting step for converting the audio data to the sounds and outputting the sounds.

34. (Currently Amended) A distribution program stored on a computer-readable medium for use in a distribution computer system that distributes a program for decoding encoded audio

data, the distribution system ~~including~~including a distribution server ~~device~~device, a removable memory unit having an area for storing the ~~program~~program, an acquisition device which is connected to the distribution server device via a network and loaded with the removable memory ~~unit~~unit; and an audio reproduction device which is loaded with the removable memory unit, the distribution program causing the distribution computer system to perform a method comprising:

- a distribution server step, executed by the distribution server device, for sending the program for decoding the encoded audio data;

- an acquiring step, executed by the acquisition device, for acquiring the program and storing the program ~~into~~in the removable memory unit; and

- an audio reproducing step, executed by the audio reproduction device, for decoding the encoded audio data using the program stored in the removable memory unit, and outputting sounds.

35. (Currently Amended) An audio reproduction program stored on a computer-readable medium for use in a computer that decodes encoded audio data and outputs sounds, wherein a distribution server device sends a program for decoding the encoded audio data to an acquisition device via a network, a removable memory unit is loaded to the acquisition device, the acquisition device writes the program ~~into~~in the removable memory unit, and the removable memory unit storing the program is loaded to the computer, the audio reproduction program causing the computer to perform a method comprising:

- a reading step for reading the program from the removable memory unit;

- a decoding step for decoding the encoded audio data using the program, to generate audio data; and

- a sound outputting step for converting the audio data to the sounds and outputting the sounds.